BookletChart™

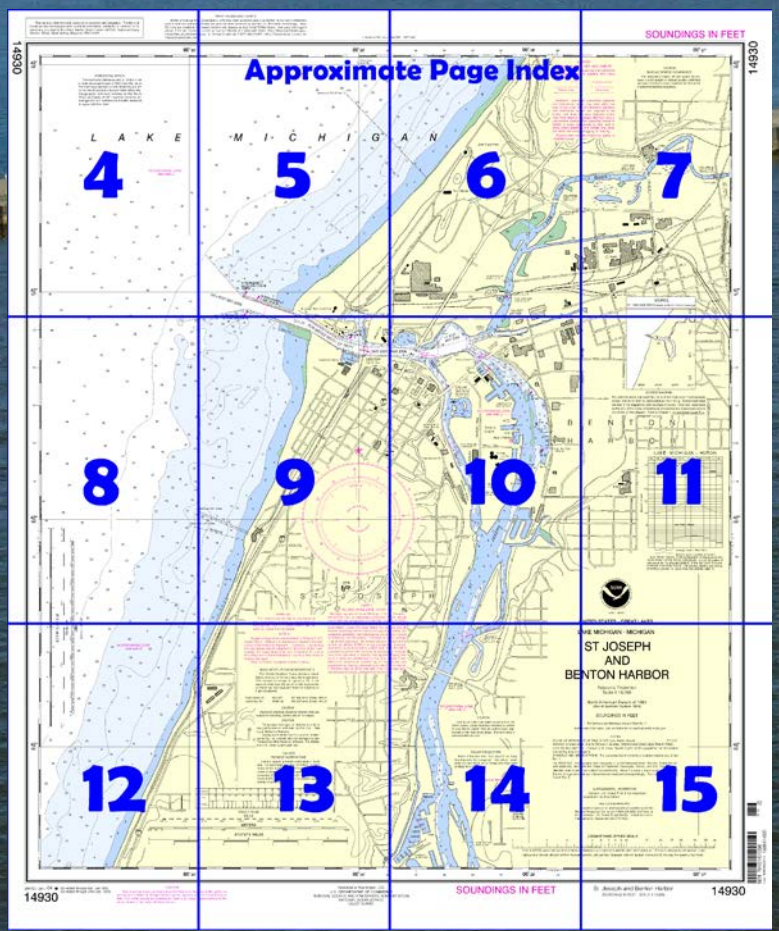
St. Joseph and Benton Harbor

NOAA Chart 14930

A reduced-scale NOAA nautical chart for small boaters

When possible, use the full-size NOAA chart for navigation.

- *Complete, reduced-scale nautical chart*
- *Print at home for free*
- *Convenient size*
- *Up-to-date with Notices to Mariners*
- *Compiled by NOAA's Office of Coast Survey, the nation's chartmaker*



Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=14930.

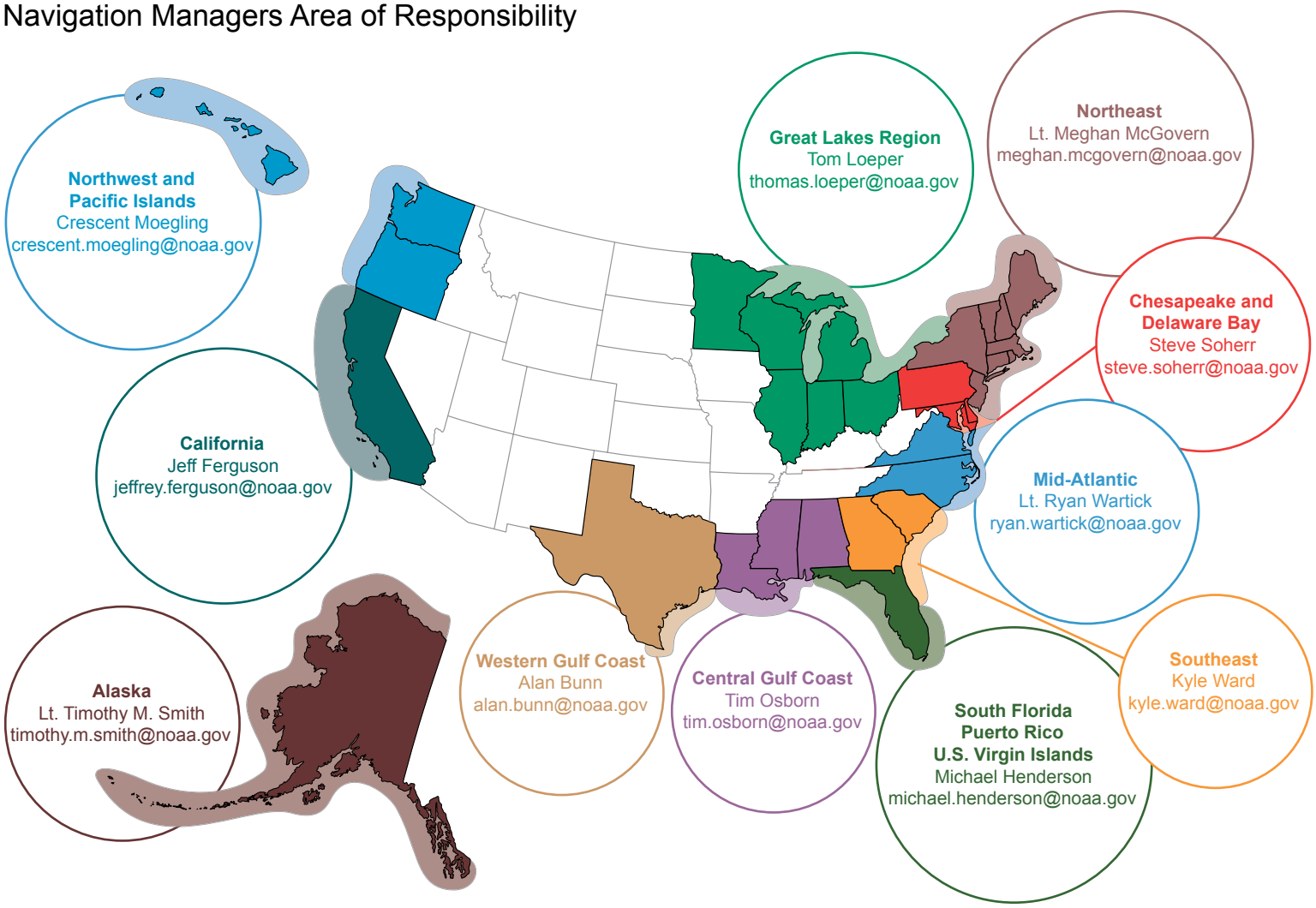
(Selected Excerpts from Coast Pilot)
The **St. Joseph River** flows into Lake Michigan 22 miles south-southwest of South Haven and 107 miles south of Little Sable Point. The port cities of **St. Joseph, MI,** and **Benton Harbor, MI,** are on the W and east sides of the river, respectively. The principal commodities handled in the harbor are gravel and cement.
St. Joseph North Pierhead Light (42°06'55"N., 86°29'44"W.) is shown from a white cylindrical tower on the outer end of the south pier. A sound signal at the light is activated by keying the microphone five times on VHF-FM channel 79.

Channels.–A dredged entrance channel leads from deep water in Lake Michigan between parallel piers through the mouth of St. Joseph River upstream for about 1 mile to the junction with **Paw Paw River.** The outer ends of the piers are marked by lights and the north pier has an inner light. The Federal project depths for the dredged channels in the harbor are 21 feet in the entrance and through the harbor to the junction with the Paw Paw River, thence 18 feet in the remainder of the channel to the head of the project at Riverview Drive. Turning basins on the north side of the channel just below the junction with the Paw Paw River and on the southeast side of the channel below the Twin Cities Bicentennial Bridge have project depths of 18 feet. (See Notice to Mariners and latest edition of charts for controlling depths.)
Currents in the river attain velocities up to 3 mph.
Navigation should not be attempted close to the piers due to stone riprap. Mooring to the piers and revetments is prohibited.
Above the dredged channel, the St. Joseph River turns south and flows between St. Joseph on the W bank and the city of Benton Harbor on the east bank. In 1980, this reach had depths of 6 to 20 feet in the best channel, generally near the east bank. Small islands near midstream in this reach are sometimes submerged during high water conditions. Depths of 2 to 3 feet can be carried for about 7 miles above St. Joseph. The river is obstructed by dams at Berrien Springs, about 22 miles above St. Joseph.
Morrison Channel cuts across the south turn in the St. Joseph River leaving the river about 1 mile above the pierheads and rejoining it about 2.5 miles above the pierheads. The channel is separated from the river channel by **Marina Island.** In 1971, Morrison Channel had a centerline controlling depth of 6 feet.
Above the dredged channel in the Paw Paw River, the crooked channel is navigable by small craft for about 2 miles to the Paw Paw Avenue bridge. In 1968, the centerline controlling depth was 1 foot.
Coast Guard.–St. Joseph Coast Guard Station, marked by a light, is near the inner end of the north pier.
Harbor regulations.–A **speed limit** of 8 mph (7 knots) is enforced in the harbor. (See **33 CFR 162.120,** chapter 2, for regulations.)
Harbor regulations for the city of St. Joseph are enforced by the **harbormaster** and copies may be obtained from City Manager, City Hall, City of St. Joseph, St. Joseph, MI 49085.
Harbor regulations for the city of Benton Harbor are enforced by the **harbormaster,** who is the chief of police. Copies of the regulations may be obtained from the Chief of Police, 200 Wall Street, Benton Harbor, MI 49022.

U.S. Coast Guard Rescue Coordination Center
24 hour Regional Contact for Emergencies

RCC Cleveland	Commander 9th CG District Cleveland, OH	(216) 902-6117

Navigation Managers Area of Responsibility

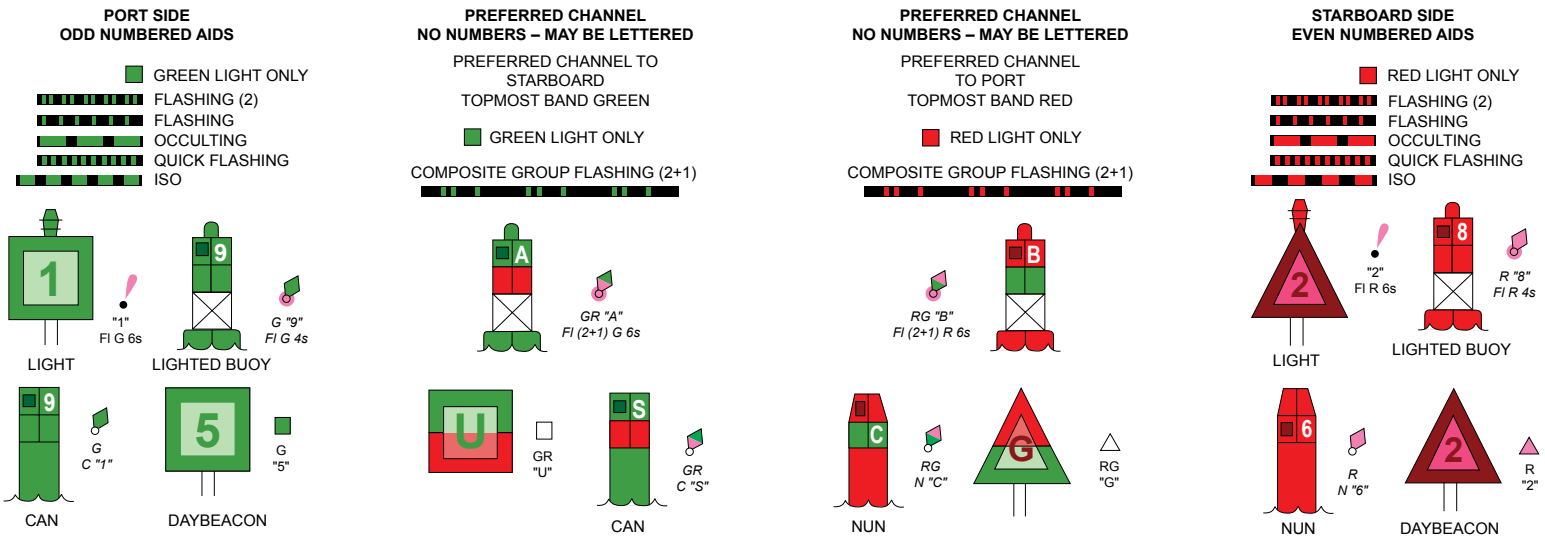


NOAA's navigation managers serve as ambassadors to the maritime community. They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit *nauticalcharts.noaa.gov/service/navmanagers*

To make suggestions or ask questions online, go to *nauticalcharts.noaa.gov/inquiry*.
To report a chart discrepancy, please use *ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx*.

Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at *http://www.navcen.uscg.gov*

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm.

14930

86° 30'

42° 08'

42° 07'

50°

40°

30°

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.141" northward and 0.080' westward to agree with this chart.

L A K E M I C H

NO-DISCHARGE ZONE
(see note Z)

Depth over crib 27 feet

N PIERHEAD LT
Fl 2.5s 31ft 12 St M
HORN

N PIER INNER LT
Iso 2s 53ft 7 St M

22 FEET MAR 2016

S PIERHEAD LT
Iso R 6s 25ft 7 St M

11 FEET MAR 2016

St Joseph River Yacht Club

Spoil Area

Obstn (Rep 2013)

Waterfront Marina

Joins page 8

4

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~

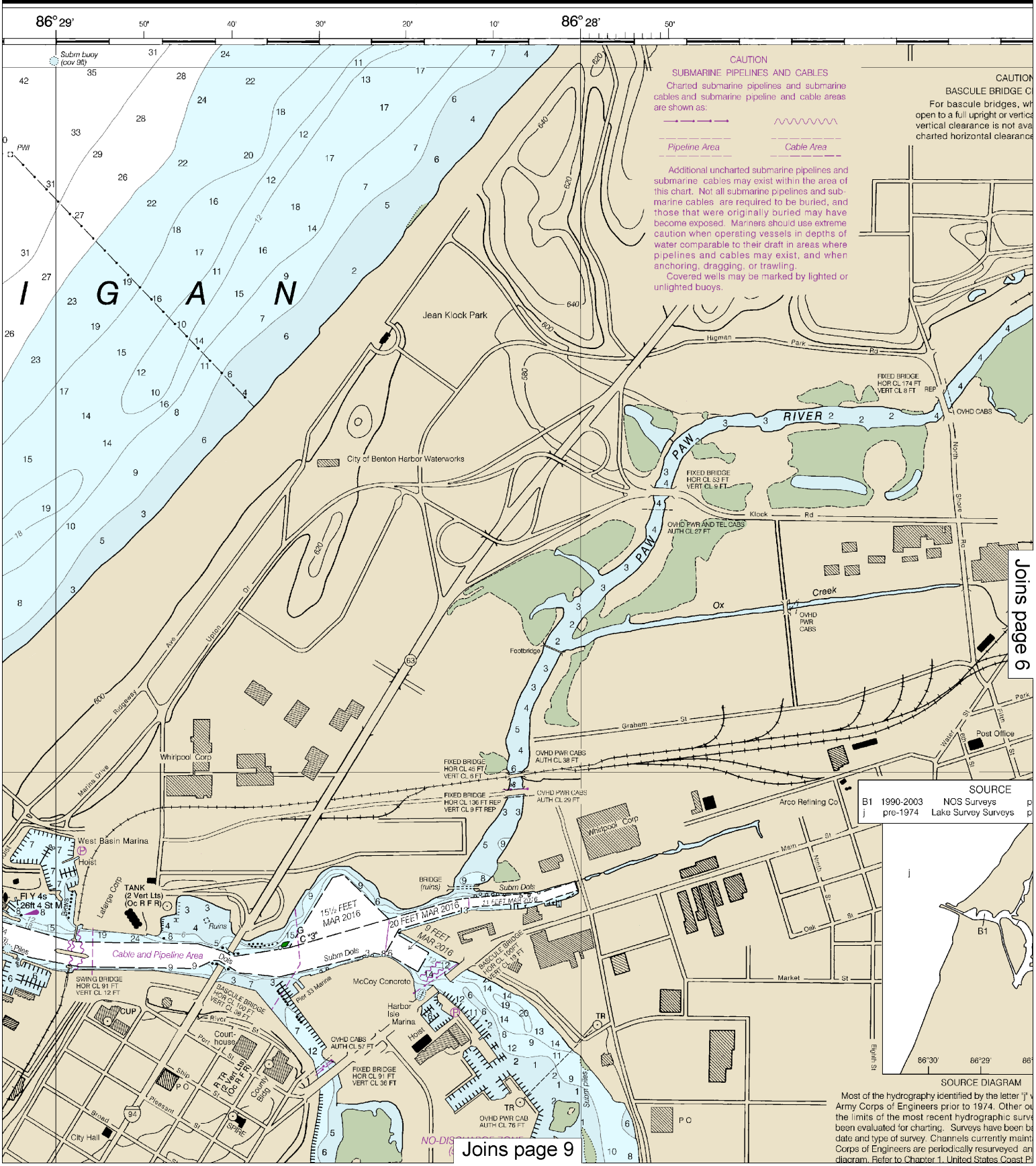
Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200

See Note on page 5.



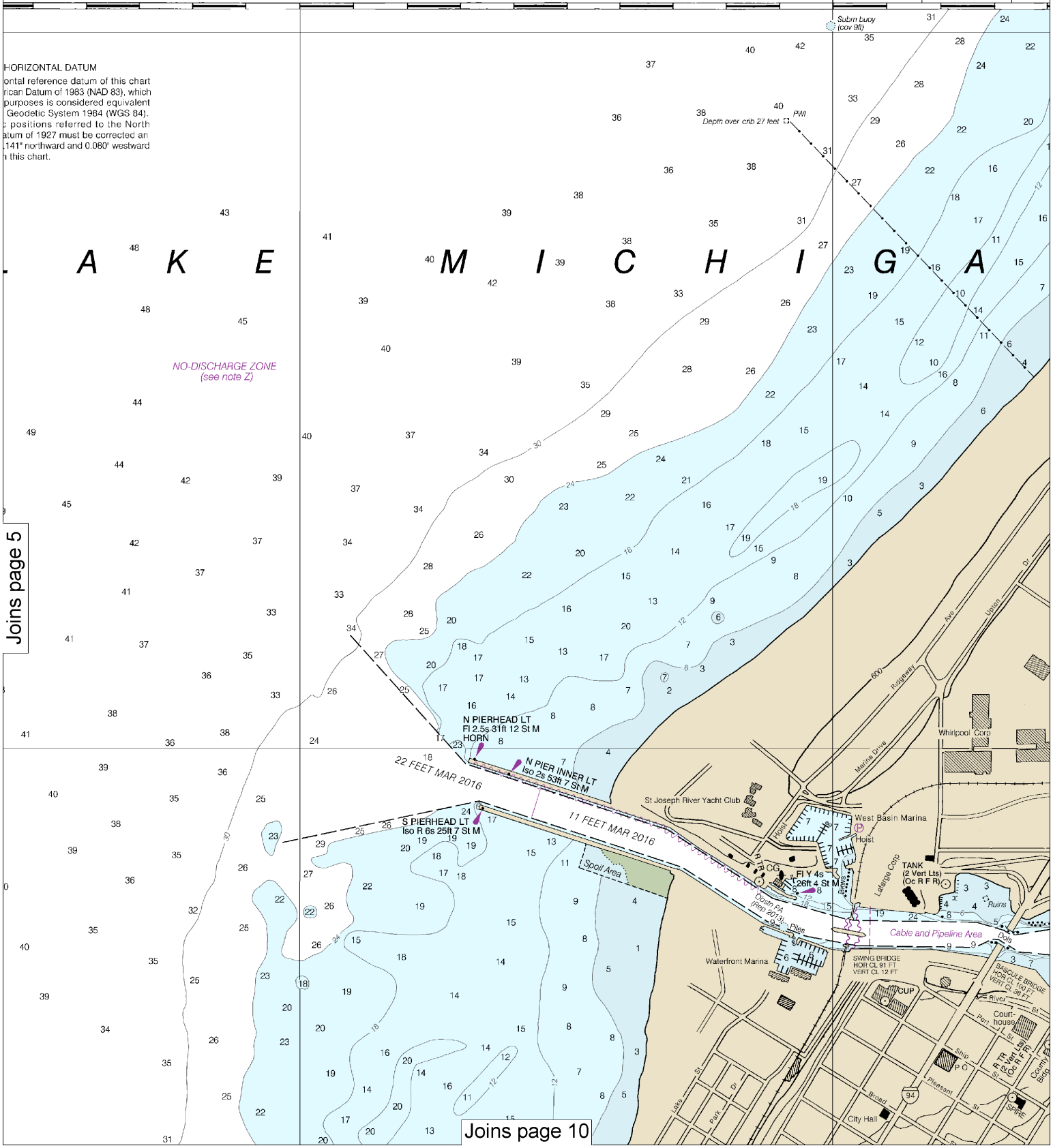
This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:13333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

discrepancies or comments
.gov/staff/contact.htm.

Formerly LS 758, 1st Ed., July 1909 KAPP 1486

86° 30' 86° 29' 50" 40'

HORIZONTAL DATUM
ontal reference datum of this chart
rican Datum of 1983 (NAD 83), which
purposes is considered equivalent
Geodetic System 1984 (WGS 84).
positions referred to the North
tum of 1927 must be corrected an
.141" northward and 0.080" westward
this chart.



Printed at reduced scale. ~~SCALE 1:10,000~~

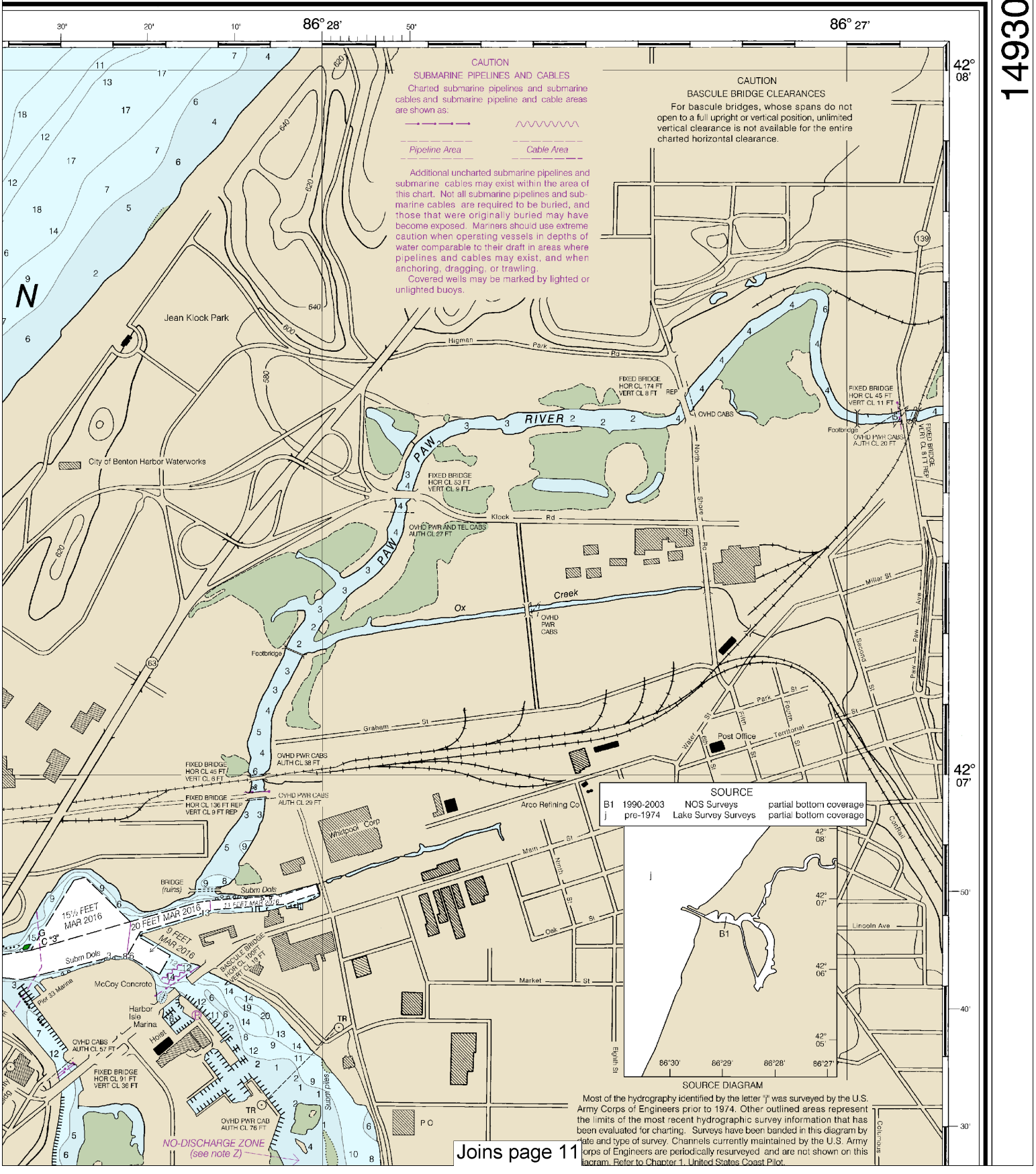
Nautical Miles
0

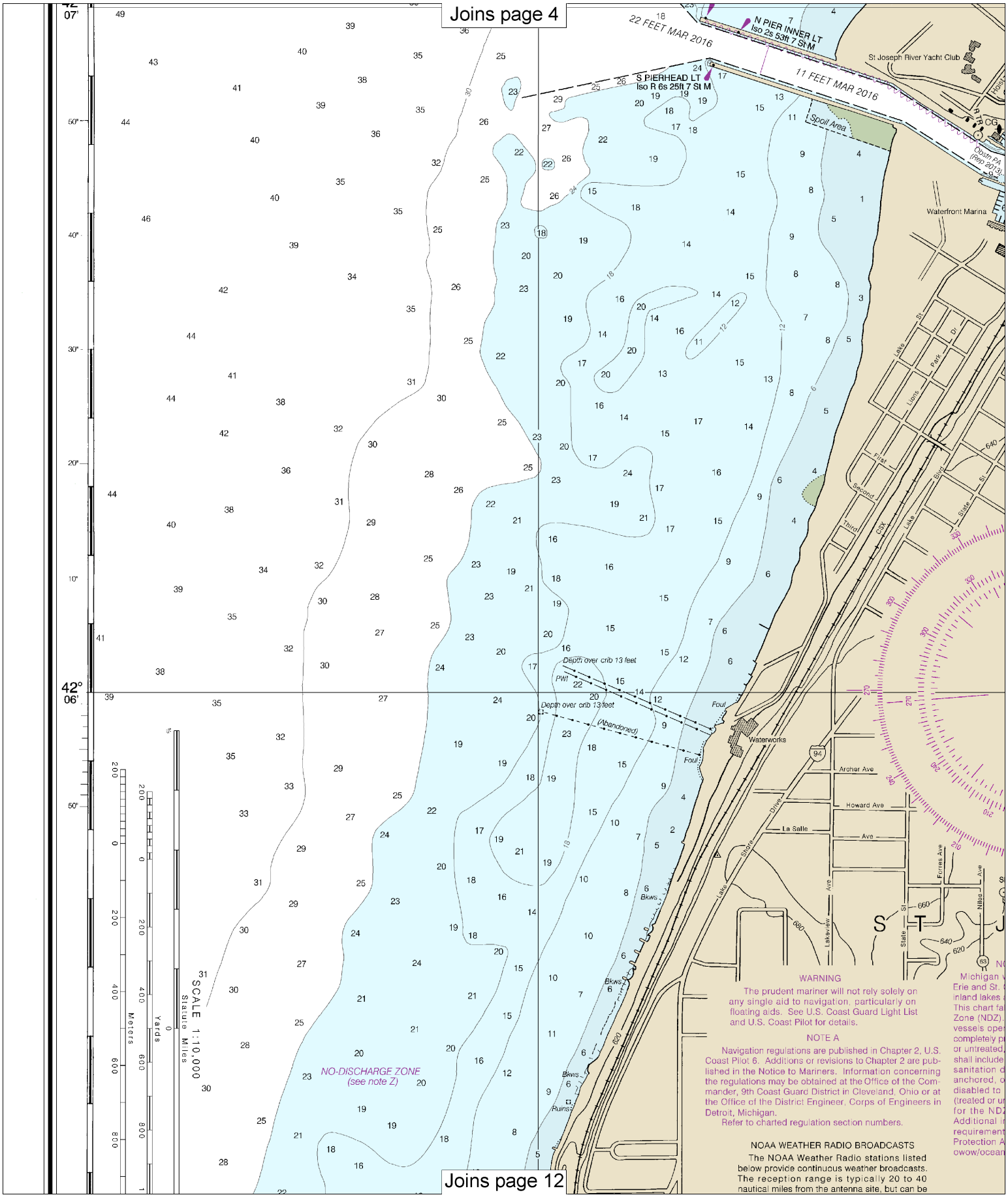
Yards
200 0 200 400 600 800 1000 1200

See Note on page 5.

6

Note: Chart grid lines are aligned with true north.


86° 28'
86° 27'
42° 08'
42° 07'
CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:
Pipeline Area
Cable Area
Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.
Covered wells may be marked by lighted or unlighted buoys.
CAUTION
BASCULE BRIDGE CLEARANCES
For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.
Jean Klock Park
City of Benton Harbor Waterworks
Higman Park Rd
Klock Rd
RIVER
PAW PAW
Ox Creek
North Shore Rd
Graham St
Miller St
Park St
Post Office
Territorial Rd
Water St
Main St
Oak St
Market St
Lincoln Ave
Arco Refining Co
Whirlpool Corp
McCoy Concrete
Harbor Isle Marina
Pier 33 Marina
Hoist
Footbridge
BRIDGE (ruins)
Subm Dols
15½ FEET MAR 2016
20 FEET MAR 2016
9 FEET MAR 2016
11 FEET MAR 2016
FIXED BRIDGE HOR CL 174 FT VERT CL 8 FT REP
FIXED BRIDGE HOR CL 45 FT VERT CL 11 FT
FIXED BRIDGE HOR CL 53 FT VERT CL 5 FT
FIXED BRIDGE HOR CL 46 FT VERT CL 6 FT
FIXED BRIDGE HOR CL 136 FT REP VERT CL 9 FT REP
FIXED BRIDGE HOR CL 91 FT VERT CL 36 FT
BASCULE BRIDGE HOR CL 106 FT VERT CL 10 FT
OVHD PWR CABS AUTH CL 20 FT
OVHD PWR AND TEL CABS AUTH CL 27 FT
OVHD PWR CABS
OVHD PWR CABS AUTH CL 38 FT
OVHD PWR CABS AUTH CL 29 FT
OVHD CABS AUTH CL 57 FT
OVHD PWR CAB AUTH CL 76 FT
NO-DISCHARGE ZONE (see note Z)
Joins page 11
SOURCE
B1 1990-2003 NOS Surveys partial bottom coverage
j pre-1974 Lake Survey Surveys partial bottom coverage
SOURCE DIAGRAM
Most of the hydrography identified by the letter 'j' was surveyed by the U.S. Army Corps of Engineers prior to 1974. Other outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels currently maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

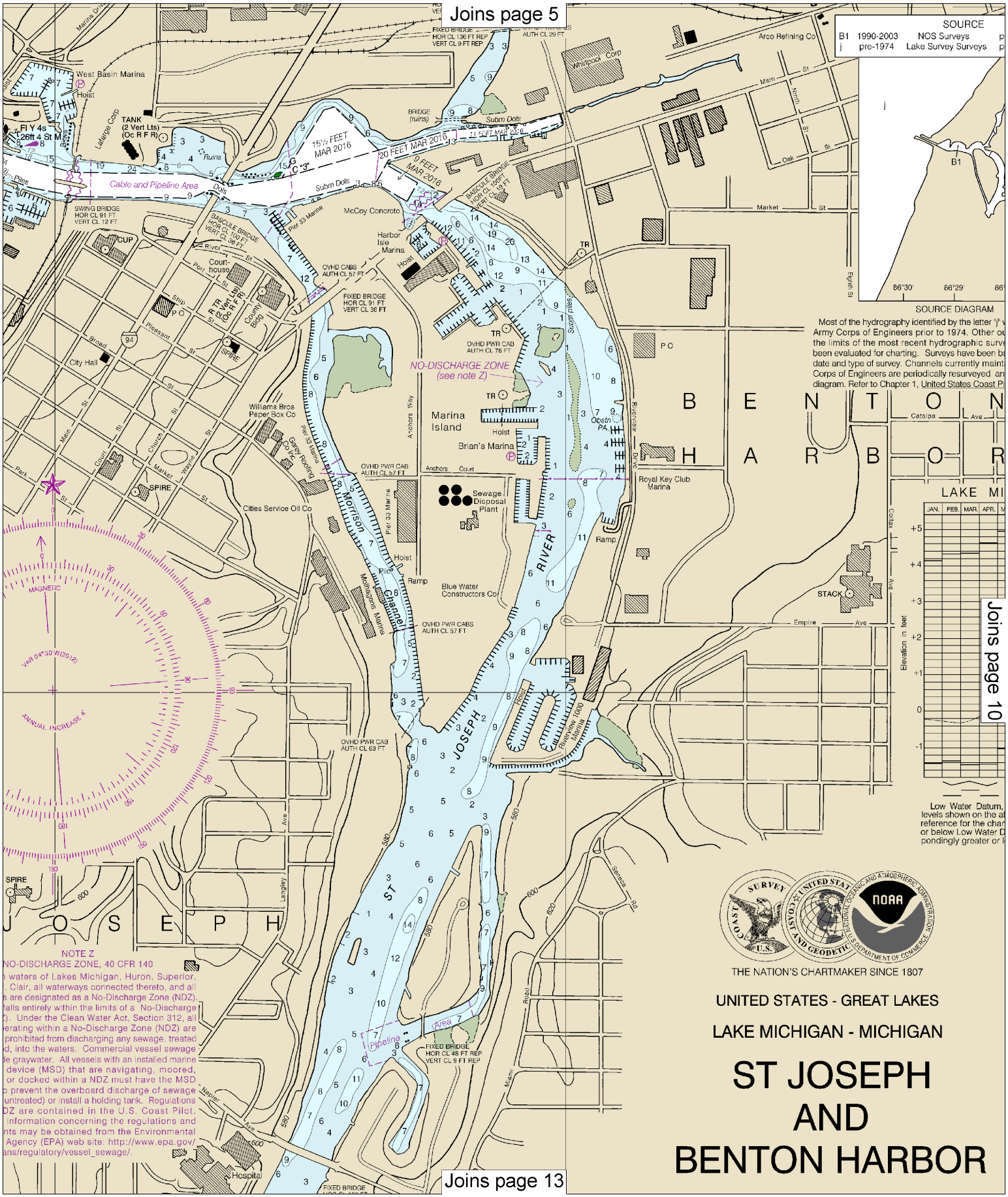


8

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles
0
Yards
200 0 200 400 600 800 1000 1200


Joins page 5
SOURCE
B1 1990-2003 NOS Surveys
j pre-1974 Lake Survey Surveys
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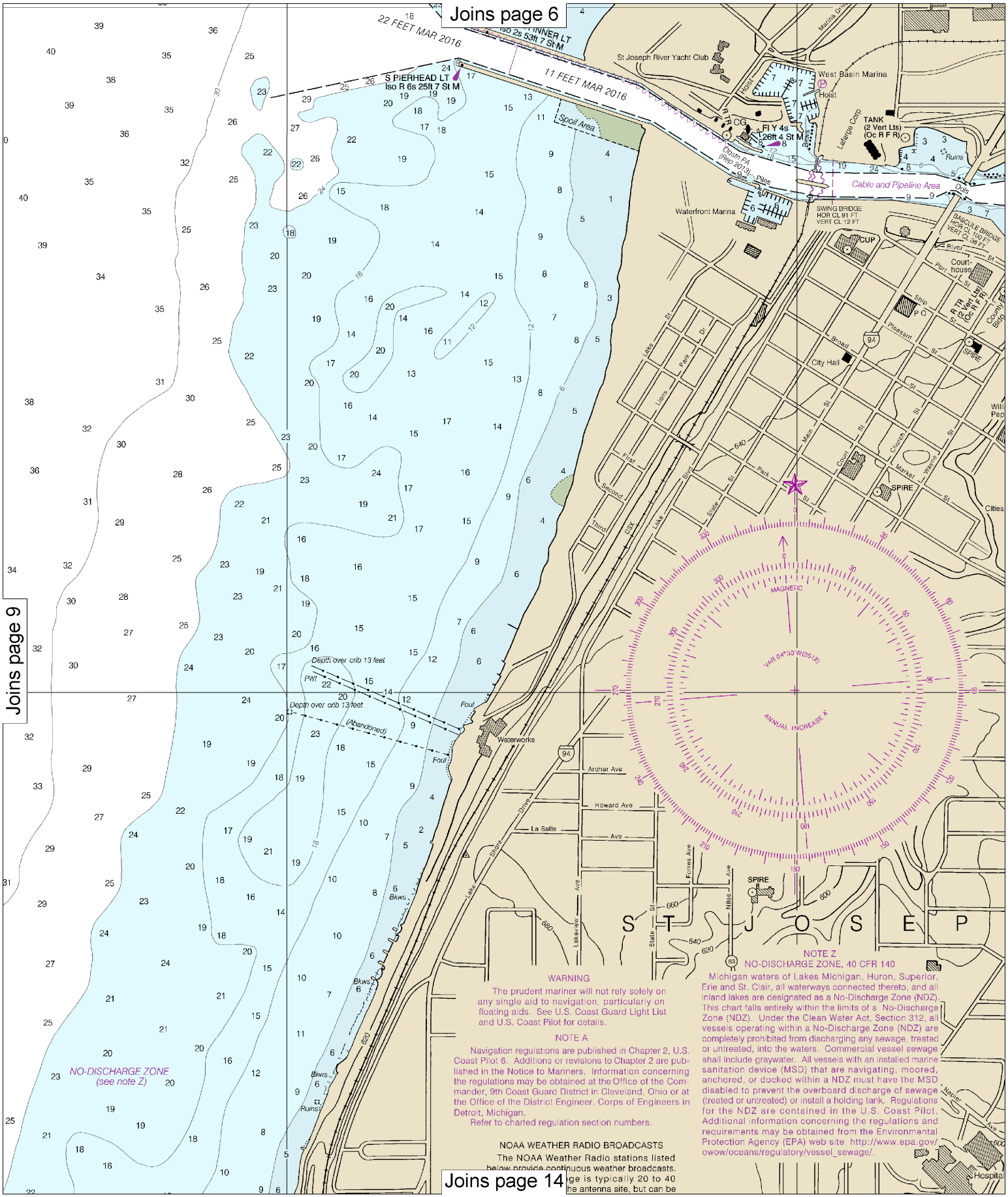
date and type of survey. Channels currently maint
Corps of Engineers are periodically resurveyed an
diagram. Refer to Chapter 1, United States Coast Pi
NO-DISCHARGE ZONE
(see note Z)
BENTON HARBOR
LAKE MI
Low Water Datum,
levels shown on the al
reference for the char
or below Low Water D
pondingly greater or l
Joins page 10
NOTE Z
NO-DISCHARGE ZONE, 40 CFR 140
waters of Lakes Michigan, Huron, Superior,
Clair, all waterways connected thereto, and all
are designated as a No-Discharge Zone (NDZ).
falls entirely within the limits of a No-Discharge
). Under the Clean Water Act, Section 312, all
erating within a No-Discharge Zone (NDZ) are
prohibited from discharging any sewage, treated
d, into the waters. Commercial vessel sewage
e graywater. All vessels with an installed marine
device (MSD) that are navigating, moored,
or docked within a NDZ must have the MSD
o prevent the overboard discharge of sewage
untreated) or install a holding tank. Regulations
DZ are contained in the U.S. Coast Pilot.
information concerning the regulations and
nts may be obtained from the Environmental
Agency (EPA) web site: http://www.epa.gov/
ans/regulatory/vessel_sewage/.
THE NATION'S CHARTMAKER SINCE 1807
UNITED STATES - GREAT LAKES
LAKE MICHIGAN - MICHIGAN
ST JOSEPH
AND
BENTON HARBOR
Joins page 13



Note: Chart grid lines are aligned with true north.

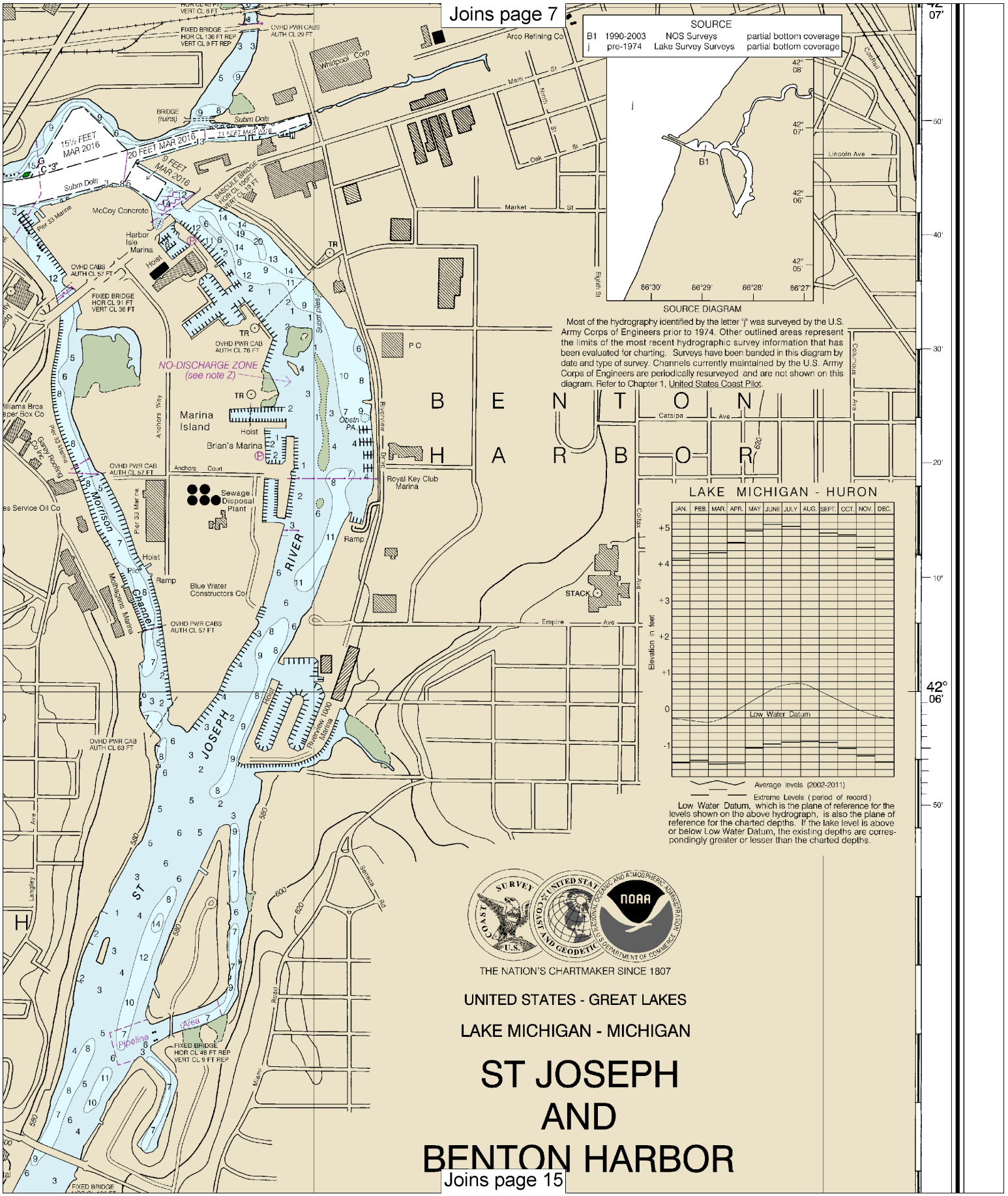
Printed at reduced scale. ~~SCALE 1:10,000~~

Nautical Miles 0

Yards 200 0 200 400 600 800 1000 1200

See Note on page 5.

Joins page 7



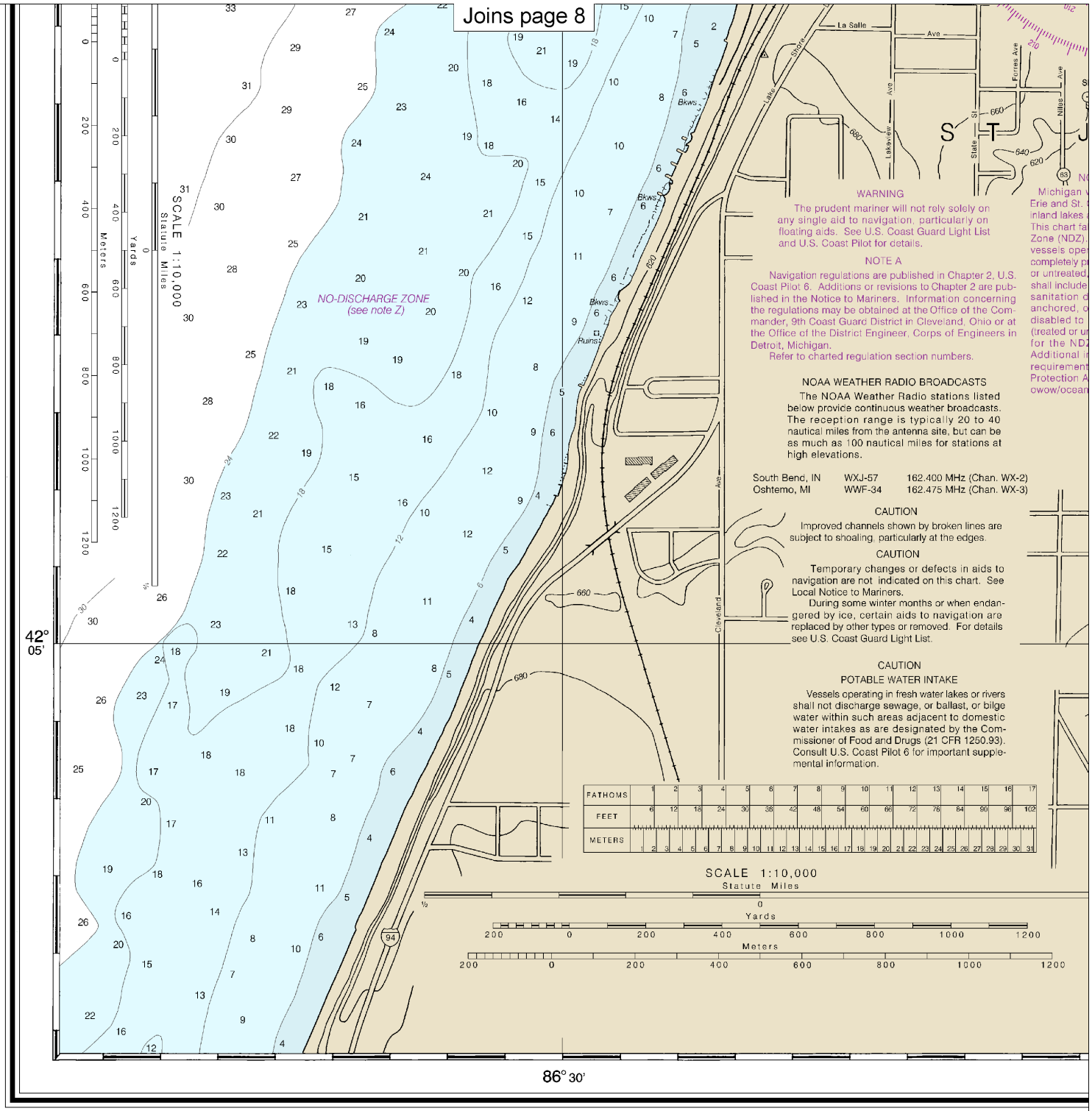
THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES

LAKE MICHIGAN - MICHIGAN

ST JOSEPH AND BENTON HARBOR

Joins page 15



26th Ed., Nov. 2012

14930

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

Publ
U.S. DEP
NATIONAL OCEANI
NA

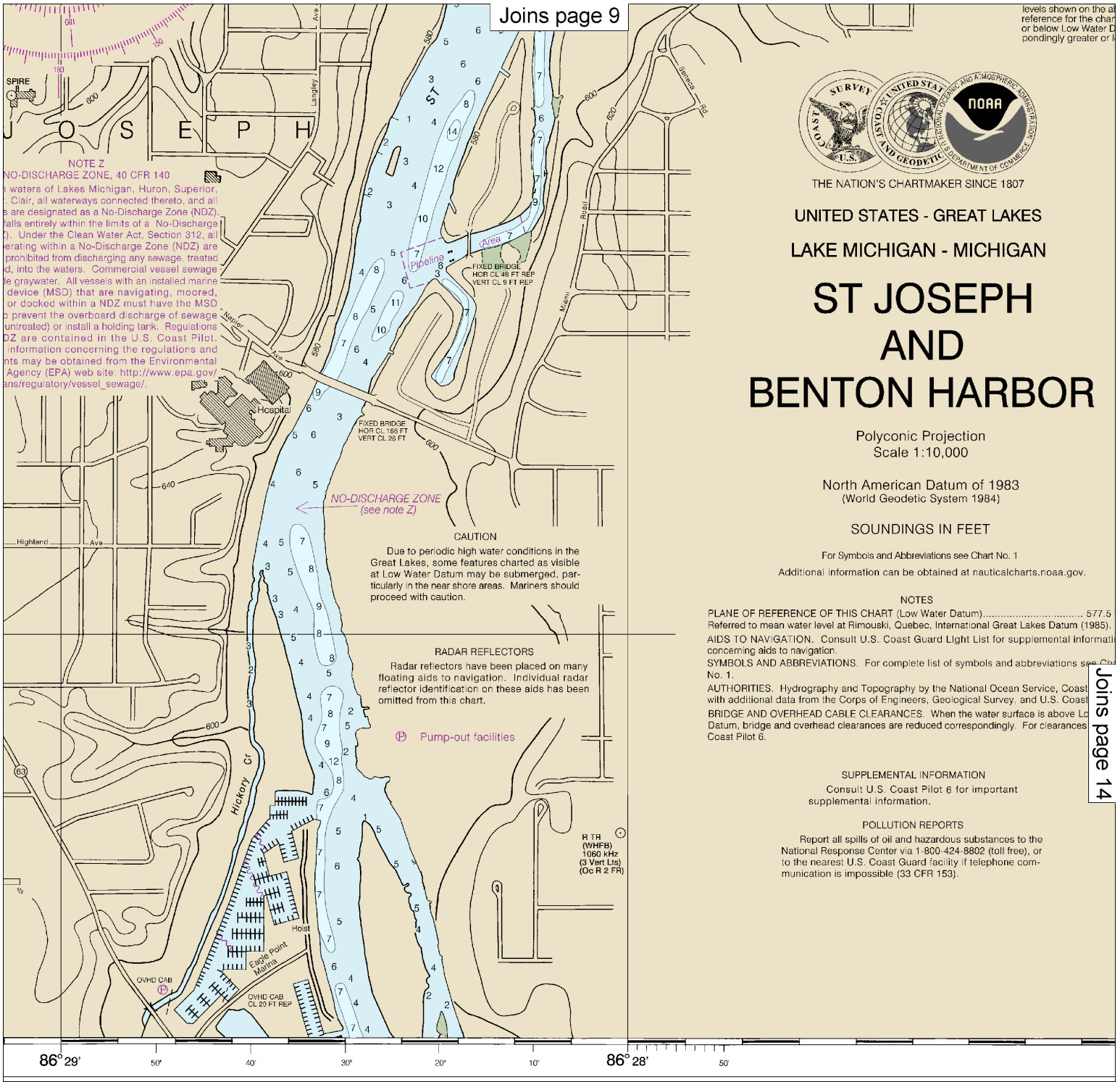
Last Correction: 5/2/2016. Cleared through:
LNM: 4616 (11/15/2016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles
0
Yards
200 0 200 400 600 800 1000 1200

Joins page 9



levels shown on the al
reference for the char
or below Low Water D
pondingly greater or l

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES

LAKE MICHIGAN - MICHIGAN

ST JOSEPH AND BENTON HARBOR

Polyconic Projection
Scale 1:10,000

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

For Symbols and Abbreviations see Chart No. 1

Additional information can be obtained at nauticalcharts.noaa.gov.

NOTES

PLANE OF REFERENCE OF THIS CHART (Low Water Datum)..... 577.5
Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).

AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental informati concerning aids to navigation.

SYMBOLS AND ABBREVIATIONS. For complete list of symbols and abbreviations see Ch No. 1.

AUTHORITIES. Hydrography and Topography by the National Ocean Service, Coast with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast

BRIDGE AND OVERHEAD CABLE CLEARANCES. When the water surface is above Lo Datum, bridge and overhead clearances are reduced correspondingly. For clearances Coast Pilot 6.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 6 for important supplemental information.

POLLUTION REPORTS

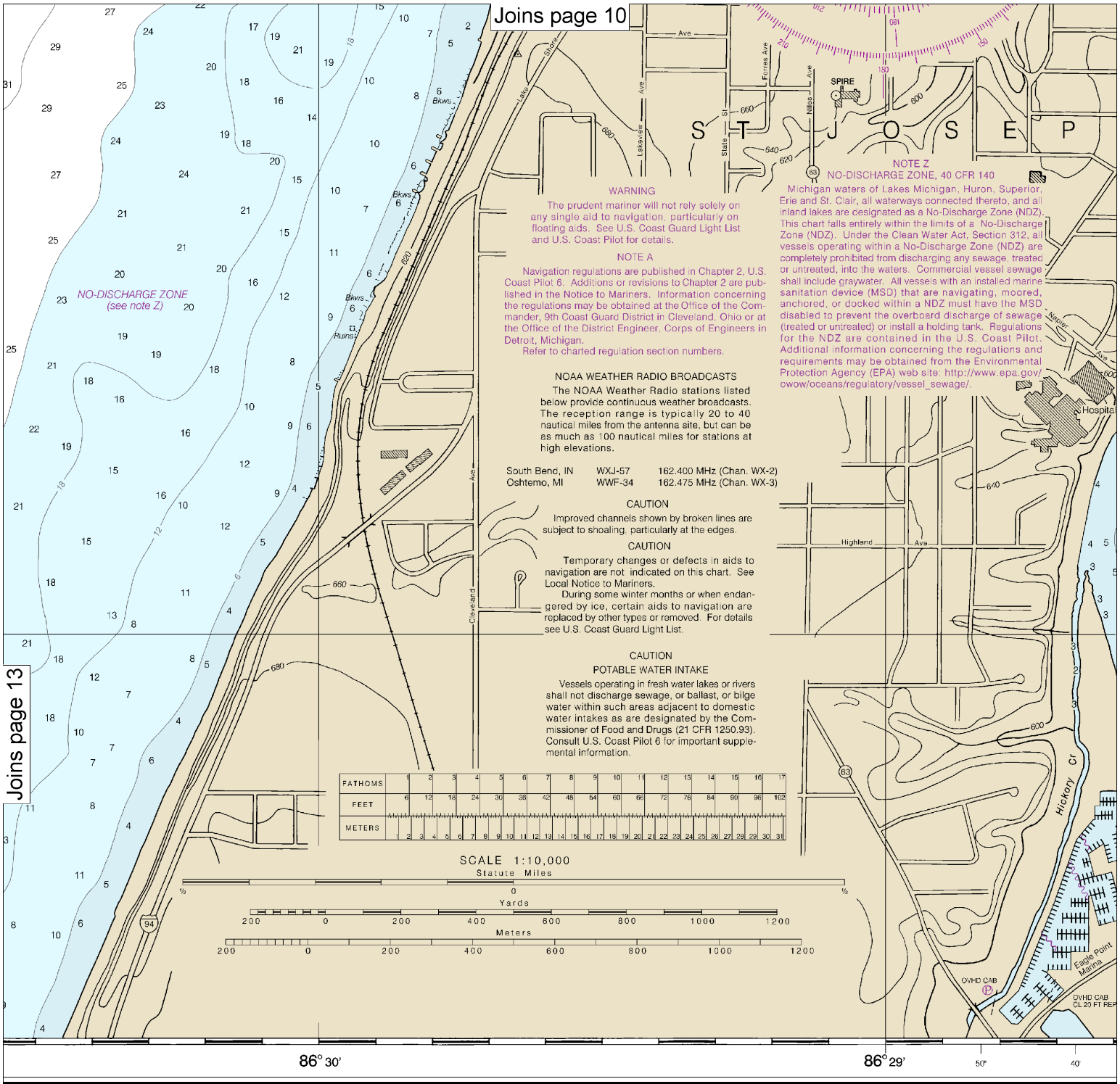
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

Joins page 14

blished at Washington, D.C.
EPARTMENT OF COMMERCE
NIC AND ATMOSPHERIC ADMINISTRATION
ATIONAL OCEAN SERVICE
COAST SURVEY

SOUNDINGS IN FEET

St. Joseph and Benton Harbor
SOUNDINGS IN FEET - SCALE 1:10,000



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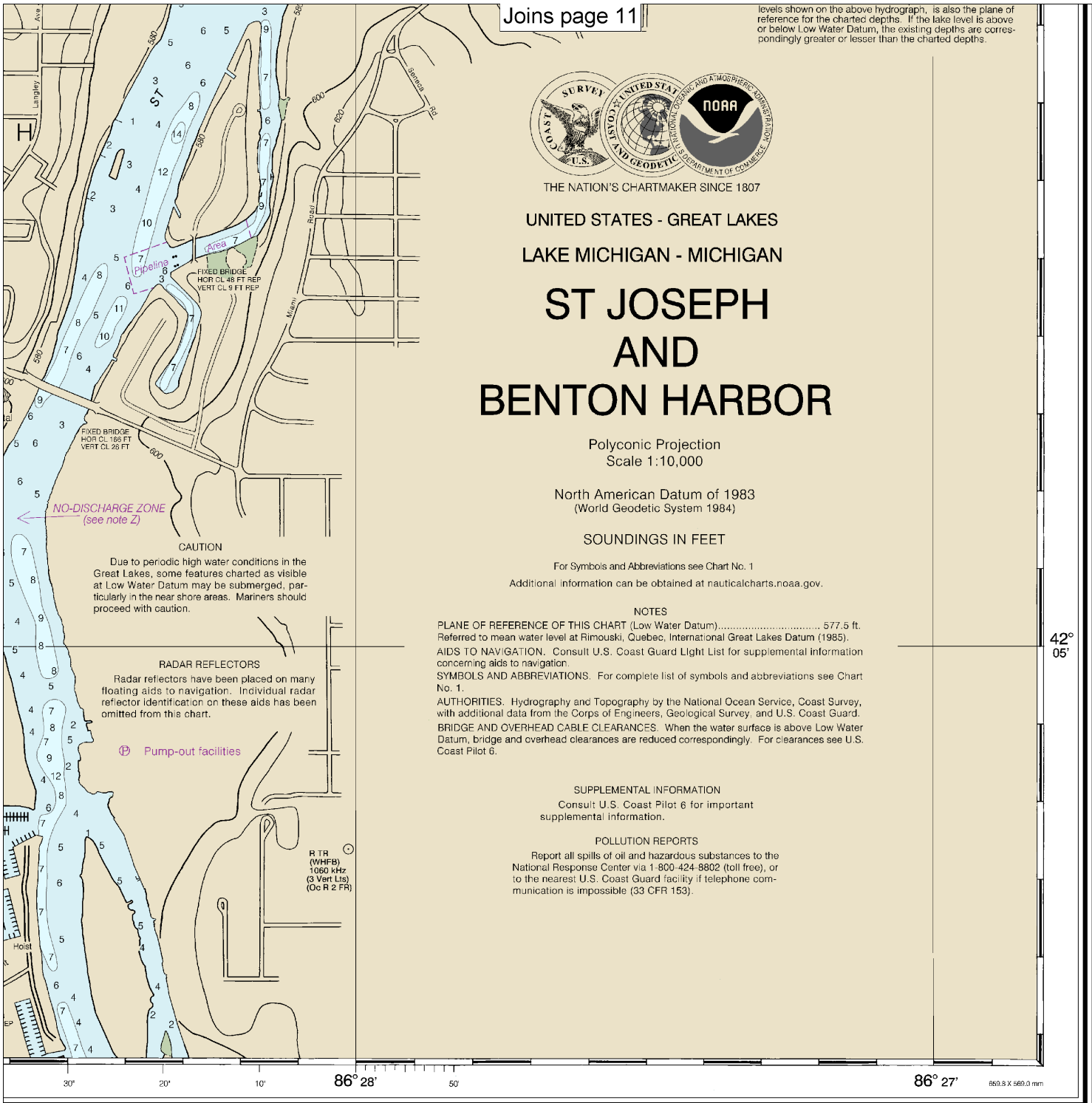
Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

2016. Cleared through:
016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles
0
Yards
200 0 200 400 600 800 1000 1200



SOUNDINGS IN FEET

St. Joseph and Benton Harbor
SOUNDINGS IN FEET - SCALE 1:10,000

14930

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!

All Hazards NOAA Weather Radio NOAA's National Weather Service

NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.
http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information	—	**http://www.nauticalcharts.noaa.gov**
Interactive chart catalog	—	**http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml**
Report a chart discrepancy	—	**http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx**
Chart and chart related inquiries and comments	—	**http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs**
Chart updates (LNM and NM corrections)	—	**http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html**
Coast Pilot online	—	**http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm**
Tides and Currents	—	**http://tidesandcurrents.noaa.gov**
Marine Forecasts	—	**http://www.nws.noaa.gov/om/marine/home.htm**
National Data Buoy Center	—	**http://www.ndbc.noaa.gov/**
NowCoast web portal for coastal conditions	—	**http://www.nowcoast.noaa.gov/**
National Weather Service	—	**http://www.weather.gov/**
National Hurrican Center	—	**http://www.nhc.noaa.gov/**
Pacific Tsunami Warning Center	—	**http://ptwc.weather.gov/**
Contact Us	—	**http://www.nauticalcharts.noaa.gov/staff/contact.htm**

twitter —— For the latest news from Coast Survey, follow **@NOAAcharts**

This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

NOAA's Office of Coast Survey The Nation's Chartmaker